

CURRICULUM VITAE

Mark Wesley Moss

Current Position

Martek Biosciences, Columbia, MD- Group Leader, Research and Development, Detection Systems Group

Professional Background

2002-04 **Martek Biosciences**, Columbia, MD- Research Associate III, Research and Development, Detection Systems Group
1997-97 **Martek Biosciences**, Columbia, MD- Research Associate II, Fluorescent Products Group
1994-97 **The Johns Hopkins University School of Medicine**, Division of Infectious Disease, Baltimore, MD- Senior Laboratory Technician II, International HIV/AIDS Reference Laboratory, NIH/NIAID
1990-94 **The Johns Hopkins University School of Medicine**, Division of Infectious Disease, Baltimore, MD- Laboratory Technician, International HIV/AIDS Reference Laboratory, NIH/NIAID

Education

1988-92 **The Johns Hopkins University**, Baltimore MD. – BS Program, Chemical Engineering

Societies

The Society for Biomolecular Screening
The International Society for Analytical Cytology
The Chesapeake Cytometry Consortium

Professional Experience

Laboratory

Protein microarray design and optimization
Flow cytometry, including operation and maintenance of in-house fluorescent cell sorter
Isolation, derivitization, and bioconjugation of fluorescent proteins and other biomolecules
Fluorescent, chemifluorescent, and enzyme-linked immunoassays and assay development
UV/Vis absorbance and fluorescence emission spectroscopy
Aqueous and organic chemistry methods
Western blotting
Mammalian cell culture
Column chromatography
PCR and RT-PCR

Business development

Intellectual property development
Tradeshows and conferences
Conversion of data and technical works into marketing materials
Graphics for tradeshows and marketing pieces

Other Experience

Biosafety level 3 training and work experience
Yearly OSHA Hazards Communications training

Publications

- Telford WG. Moss MW. Morseman JP. Allnutt FCT. Cyanobacterial Stabilized Phycobilisomes as Fluorochromes for Extracellular Antigen Detection by Flow Cytometry. **JOURNAL OF IMMUNOLOGICAL METHODS**. 254(1-2): 13-30, 2001 Aug 1.
- Telford WG. Moss MW. Morseman JP. Allnutt FCT. Cryptomonad Algal Phycobiliproteins as Fluorochromes for Extracellular and Intracellular Antigen Detection by Flow Cytometry. **CYTOMETRY**. 44(1): 16-23, 2001 May 1.
- Zoha SJ. Ramnarain S. Morseman JP. Moss MW. Allnutt FCT. Rogers Y. Harvey B. PBXL Fluorescent Dyes for Ultrasensitive Direct Detection. **JOURNAL OF FLUORESCENCE**. 9(3):197-208, 1999 Oct.
- Morseman JP, Moss MW, Zoha SJ, Allnutt FC. PBXL-1: a new fluorochrome applied to detection of proteins on membranes. **BIOTECHNIQUES**. 26:559-63, 1999 Mar.
- Moss MW. Carella AV. Provost V. Quinn TC. Comparison of absolute CD4⁺ lymphocyte counts by enzyme immunoassay(TRAx CD4 Test Kit) and flow cytometry. **CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY**. 3(4):371-3, 1996 Jul.
- Carella AV. Moss MW. Provost V. Quinn TC. A manual bead assay for the determination of absolute CD4⁺ and CD8⁺ counts in human immunodeficiency virus-infected individuals. **CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY**. 2(5):623-5, 1995 Sep.
- Asihene PJ. Kline RL. Moss MW. Carella AV. Quinn TC. Evaluation of rapid test for detection of antibody to human immunodeficiency virus type 1 and type 2. **JOURNAL OF CLINICAL MICROBIOLOGY**. 32(5):1341-2, 1994 May.
- Winsom C. DePaola LG. Thomas DL. Moss MW. Meiller J. Overholser C. Quinn TC. Prevalence of hepatitis B virus (HBV) and hepatitis C virus (HCV) in dental school patients and dental practitioners in Maryland. **JOURNAL OF THE MARYLAND STATE DENTAL ASSOCIATION**. 1993 Spring;35(1):17-9.
- Quinn TC. Kline RL. Moss MW. Livingston RA. Hutton N. Acid dissociation of immune complexes improve diagnostic utility of p24 antigen detection in perinatally acquired human immunodeficiency virus infection. **JOURNAL OF INFECTIOUS DISEASES**. 167(5):1193-6, 1993 May.
- Bollinger RC Jr. Kline RL. Francis HL. Moss MW. Bartlett JG. Quinn TC. Acid dissociation increases the sensitivity of p24 antigen detection for the evaluation of antiviral therapy and disease progression in asymptomatic human immunodeficiency virus-infected persons. **JOURNAL OF INFECTIOUS DISEASES**. 165(5):913-6, 1992 May.

Abstracts

- Johnson T. Morseman J. Ramnarain S. Zoha S. Moss M. Allnutt FCT. Direct fluorescent detection using PBXL dyes. **IBC CONFERENCE ASSAY MINIATURIZATION, SQUAW VALLEY, NEVADA FEBRUARY 1998**.
- Kline R. Newhouse R. Granade T. Phillips S. Moss M. Quinn TC. Evaluation of the MicroTrak II HIV-1/HIV-2 Recombinant Antigen Enzyme Immunoassay. **94th GENERAL MEETING OF THE AMERICAN SOCIETY OF MICROBIOLOGY, LAS VEGAS, NEVADA MAY 1995**.
- Kelen GD. Hexter DA. Kline R. Carella A. Moss M. Quinn TC. Dynamics of the HIV epidemic in an inner-city emergency department (ED): implications for ED based targeted screening. **IX INTERNATIONAL CONFERENCE ON AIDS, BERLIN, GERMANY JUNE 1993**.
- Quinn TC. Kline R. Livingston R. Carella A. Moss M. Hutton N. An algorithm for the early diagnosis of perinatally acquired HIV-1 infection using the IgA immunoblot assay and the modified p24 antigen (Ag) assay. **IX INTERNATIONAL CONFERENCE ON AIDS, BERLIN, GERMANY JUNE 1993**.

Presentations

Comparison of absolute CD4⁺ lymphocyte counts by enzyme immunoassay(TRAx CD4 Test Kit) and flow cytometry. Oral presentation, Emerging Technologies Satellite Symposium- **IX**
INTERNATIONAL CONFERENCE ON AIDS, BERLIN, GERMANY JUNE 1993.

Patents

Morseman JP. Moss MW. Allnutt FCT. High Fluorescent Intensity Crosslinked Allophycocyanin.
[pending]

Morseman, JP. Moss MW. Ellis LA. Reelin Deficiency or Dysfunction and Methods Related Thereto.
[pending]